

## WEST Search History





DATE: Monday, April 25, 2005

<u>Hide?</u>	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L19	134/\$.ccls. and (bellows accumulator)	1
<input type="checkbox"/>	L18	L17 and (elevated pressure)	13
<input type="checkbox"/>	L17	L15 and cleaning	408
<input type="checkbox"/>	L16	L15 and (dense gas)	4
<input type="checkbox"/>	L15	134/\$.ccls. and (bladder or bellows)	594
<input type="checkbox"/>	L14	(137/565.34).ccls. and conveying	11
<input type="checkbox"/>	L13	(137/565.34).ccls. and accumulator and cleaning	8
<input type="checkbox"/>	L12	(137/12 or 137/896).ccls. mixing	0
<input type="checkbox"/>	L11	(137/12 or 137/896).ccls. and bellows	25
<input type="checkbox"/>	L10	L9 and mixing	1
<input type="checkbox"/>	L9	(137/12 or 137/896).ccls. and accumulator	13
<input type="checkbox"/>	L8	L3 and wafer	1
<input type="checkbox"/>	L7	L3 and cleaning	4
<input type="checkbox"/>	L6	L3 and (supercritical gas)	0
<input type="checkbox"/>	L5	L3and and (supercritical gas)	0
<input type="checkbox"/>	L4	L3and and (dense gas)	0
<input type="checkbox"/>	L3	L2 and bellows	112
<input type="checkbox"/>	L2	138/\$.ccls. and accumulator	1255
<input type="checkbox"/>	L1	138/4.ccls. and accumulator	0

END OF SEARCH HISTORY

## Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20050039775 A1

Using default format because multiple data bases are involved.

L16: Entry 1 of 4

File: PGPB

Feb 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050039775

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050039775 A1

TITLE: Process and system for cleaning surfaces of semiconductor wafers

PUBLICATION-DATE: February 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Whitlock, Walter H.	Chapel Hill	NC	US	

US-CL-CURRENT: [134/2](#); [134/19](#), [134/25.4](#), [134/26](#), [134/31](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 20040003831 A1

L16: Entry 2 of 4

File: PGPB

Jan 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040003831

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040003831 A1

TITLE: Supercritical fluid cleaning process for precision surfaces

PUBLICATION-DATE: January 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mount, David J.	North Andover	MA	US	

US-CL-CURRENT: [134/26](#); [134/30](#), [134/42](#), [134/902](#)

ABSTRACT:

A dry process for the cleaning of precision surfaces such as of semiconductor wafers, by using process materials such as carbon dioxide and useful additives such

as cosolvents and surfactants, where the process materials are applied exclusively in gaseous and supercritical states. Soak and agitation steps are applied to the wafer, including a rapid decompression of the process chamber after a soak period at higher supercritical pressure, to mechanically weaken break up the polymers and other materials sought to be removed, combined with a supercritical fluid flush to carry away the loose debris.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 20020014257 A1

L16: Entry 3 of 4

File: PGPB

Feb 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020014257

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020014257 A1

TITLE: Supercritical fluid cleaning process for precision surfaces

PUBLICATION-DATE: February 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chandra, Mohan	Merrimack	NH	US	
Mount, David J.	North Andover	MA	US	
Costantini, Michael A.	Hudson	NH	US	
Moritz, Heiko D.	Nashua	NH	US	
Jafri, Ijaz H.	Nashua	NH	US	
Boyd, Jim	Amherst	NH	US	
Heathwaite, Rick M.	Greenfield	MA	US	

US-CL-CURRENT: 134/19; 134/30

ABSTRACT:

A dry process for the cleaning of precision surfaces such as of semiconductor wafers, by using process materials such as carbon dioxide and useful additives such as cosolvents and surfactants, where the process materials are applied exclusively in gaseous and supercritical states. Soak and agitation steps are applied to the wafer, including a rapid decompression of the process chamber after a soak period at higher supercritical pressure, to mechanically weaken break up the polymers and other materials sought to be removed, combined with a supercritical fluid flush to carry away the loose debris.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 6602349 B2

L16: Entry 4 of 4

File: USPT

Aug 5, 2003

US-PAT-NO: 6602349

DOCUMENT-IDENTIFIER: US 6602349 B2

TITLE: Supercritical fluid cleaning process for precision surfaces

DATE-ISSUED: August 5, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chandra; Mohan	Merrimack	NH		
Mount; David J.	North Andover	MA		
Costantini; Michael A.	Hudson	NH		
Moritz; Heiko D.	Nashua	NH		
Jafri; Ijaz	Nashua	NH		
Boyd; Jim	Amherst	NH		
Heathwaite; Rick M.	Manchester	NH		

US-CL-CURRENT: 134/19, 134/30, 134/34, 134/902

## ABSTRACT:

A dry process for the cleaning of precision surfaces such as of semiconductor wafers, by using process materials such as carbon dioxide and useful additives such as cosolvents and surfactants, where the process materials are applied exclusively in gaseous and supercritical states. Soak and agitation steps are applied to the wafer, including a rapid decompression of the process chamber after a soak period at higher supercritical pressure, to mechanically weaken break up the polymers and other materials sought to be removed, combined with a supercritical fluid flush to carry away the loose debris.

27 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
DENSE	195596
DENSES	430
GAS	2631249
GASES	637360
(15 AND (DENSE ADJ GAS)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4
(L15 AND (DENSE GAS) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

**Display Format:**  [Change Format](#)

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

## Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 6619318 B2

Using default format because multiple data bases are involved.

L13: Entry 1 of 8

File: USPT

Sep 16, 2003

US-PAT-NO: 6619318

DOCUMENT-IDENTIFIER: US 6619318 B2

TITLE: Multiple flow rate eductive dispenser

DATE-ISSUED: September 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dalhart; Mark D.	Mason	OH		
Sand; William F.	Cincinnati	OH		

US-CL-CURRENT: 137/565.34; 137/565.22, 137/599.12, 222/571, 417/181, 417/46

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INDEX	Draw De
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☐ 2. Document ID: US 5151175 A

L13: Entry 2 of 8

File: USPT

Sep 29, 1992

US-PAT-NO: 5151175

DOCUMENT-IDENTIFIER: US 5151175 A

TITLE: System to automatically drain filter backwash water

DATE-ISSUED: September 29, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Royal; Claude S.	Lynchburg	VA	24501	

US-CL-CURRENT: 210/108; 137/107, 137/565.34, 166/53, 210/257.1, 210/416.3, 210/418

ABSTRACT:

A system for providing filtered well water to a building includes a filter, an accumulator downstream of the filter, and an automatic backwash valve between the filter and the well. When the well pump is deactivated, the accumulator discharges

its contents back through the filter, towards the valve, which contains a shuttle that automatically diverts the backwash water to a drain line. The valve also prevents contaminants from being siphoned into the system through the drain line.

3 Claims, 3 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KWIC	Draw D
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☐ 3. Document ID: US 4877055 A

L13: Entry 3 of 8

File: USPT

Oct 31, 1989

US-PAT-NO: 4877055

DOCUMENT-IDENTIFIER: US 4877055 A

TITLE: Leakage device for the drainage of a diaphragm accumulator

DATE-ISSUED: October 31, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Knuchel; Pierre	Germigny L'Eveque			FR
Nollez; Jacques	Paris			FR

US-CL-CURRENT: 137/565.34; 138/30, 138/40, 60/413

ABSTRACT:

The invention relates to a leakage device for the depletion of a diaphragm accumulator when the vehicle so equipped is not in use. This device determines a permanent leakage of the liquid to a low-pressure reservoir with a predetermined rate of flow. According to the embodiment of the invention shown in the attached drawing, the device comprises a rod (150) mounted in the plunger (110), and the leakage path is defined between the rod (150) and a narrowed zone (131) of an axial passage (132) located inside the plunger. Preferably, the plunger (110) comprises a bore (126) and passages (127, 134) in communication with the inlet port (104) and the outlet port (106), and a core (130) received in the bore (126), the axial passage (132) being formed in the core (130), and the rod (150) being mounted in the core (130). The invention is used for the braking of motor vehicles.

17 Claims, 6 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KWIC	Draw D
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☐ 4. Document ID: US 3904131 A

L13: Entry 4 of 8

File: USPT

Sep 9, 1975

US-PAT-NO: 3904131  
DOCUMENT-IDENTIFIER: US 3904131 A

TITLE: Pressure sewer system

DATE-ISSUED: September 9, 1975

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Farrell, Jr.; R. Paul	Schenectady	NY		
Grace; Richard C.	Carlisle	NY		
Doyle; William J.	Delanson	NY		

US-CL-CURRENT: 241/46.02; 137/565.34, 241/185.6

ABSTRACT:

A low pressure sewer system is described which employs grinder pumps for a multiplicity of sewage generating sites and which have semi-positive displacement pumping characteristics whereby substantially constant flow (in gallons per minute) output can be produced regardless of the pressure head of the sewage piping distribution main into which the pump discharges. Each grinder pump unit includes its own anti-siphoning protection as well as self-priming characteristics and further includes a redundant check valve in the discharge piping to the low pressure sewage collection main. The low pressure collection main is comprised by small diameter, flexible, non-corroding pipes that need only be buried under the frost line and can follow the contour of the terrain of the community in which the system is installed.

33 Claims, 5 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 5. Document ID: US 3079948 A

L13: Entry 5 of 8

File: USOC

Mar 5, 1963

US-PAT-NO: 3079948  
DOCUMENT-IDENTIFIER: US 3079948 A

TITLE: Variable volume fluid distributor

DATE-ISSUED: March 5, 1963

INVENTOR-NAME: ALLEN ROBERT L

US-CL-CURRENT: 137/565.34; 137/625.11

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 6. Document ID: US 2896862 A

L13: Entry 6 of 8

File: USOC

Jul 28, 1959

US-PAT-NO: 2896862

DOCUMENT-IDENTIFIER: US 2896862 A

TITLE: Accumulator

DATE-ISSUED: July 28, 1959

INVENTOR-NAME: BEDE JAMES A

US-CL-CURRENT: 239/332; 137/207, 137/565.34, 137/592, 138/26, 239/124, 239/135

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw. De
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☐ 7. Document ID: US 2643616 A

L13: Entry 7 of 8

File: USOC

Jun 30, 1953

US-PAT-NO: 2643616

DOCUMENT-IDENTIFIER: US 2643616 A

TITLE: Pressure jet apparatus

DATE-ISSUED: June 30, 1953

INVENTOR-NAME: PAXTON DEWEY M

US-CL-CURRENT: 137/209; 134/94.1, 137/565.34, 137/571, 137/581, 417/140

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw. De
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☐ 8. Document ID: US 2207944 A

L13: Entry 8 of 8

File: USOC

Jul 16, 1940

US-PAT-NO: 2207944

DOCUMENT-IDENTIFIER: US 2207944 A

TITLE: Fluid actuated valve

DATE-ISSUED: July 16, 1940

INVENTOR-NAME: ADAMS RICHARDSON EDWARD

US-CL-CURRENT: 251/50; 137/340, 137/494, 137/565.34, 188/106P, 239/533.8, 251/63.6, 92/162R

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D.
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Term	Documents
"137/565.34"	465
137/565.34S	0
ACCUMULATOR	120110
ACCUMULATORS	24405
CLEANING	766294
CLEANINGS	3285
((("137/565.34".CCLS.) AND ACCUMULATOR AND CLEANING).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	8
((("137/565.34).CCLS. AND ACCUMULATOR AND CLEANING).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	8

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)